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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/536,614	01/19/2006	Edgar Beck	ZHHZ 2 00021	2270
27885 7590 11/25/2008 FAY SHARPE LLP 1100 SUPERIOR AVENUE, SEVENTH FLOOR CLEVELAND, OH 44114			EXAMINER	
			BUSHEY, CHARLES S	
			ART UNIT	PAPER NUMBER
			1797	•
			MAIL DATE	DELIVERY MODE
			11/26/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/536.614 BECK ET AL. Office Action Summary Examiner Art Unit Scott Bushev 1797 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 26 September 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) 1-10 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 11-21 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 2-5-07.

Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

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DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Group II, claims 11-21 in the reply filed on September 26, 2008 is acknowledged. The traversal is on the grounds that the moistening device of Group II is not a special technical feature, since the claims of Group I recite the feature "...with adiabatically cooled process air...", which according to applicant, when taken in the context of the application, pertains to air which is cooled by evaporation, which in turn would require a moistening device. This is not found persuasive because the phrase upon which applicant relies, i.e., "with adiabatically cooled process air" appears in the preamble of independent claim 1 of Group I, while not being recited at all in any of the elected Group II claims. Furthermore, while the claims are read in light of the specification, features such as the moistening device, as required by the claims of Group II, are not read into the claims of the non-elected invention (Group I, claims 1-10).

The requirement is still deemed proper and is therefore made FINAL.

2. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Specification

3. The disclosure is objected to because of the following informalities: Applicant should make reference to the international application of which this application is the national stage filing and to the original foreign application to which priority is claimed at the beginning of the specification of the instant application.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

 Claims 11-21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 11-13, applicant recites the phrase "may be", which connotes an "optional" quality to the feature being modified thereby. Accordingly, it is unclear as to what applicant intends to claim as the invention, since the metes and bounds of the patent protection desired cannot be readily determined with respect to the features connected to the "may be" phraseology.

The apparatus claims 15-17, 19, and 20 are recited in process claim format, whereas they speak of an operability, but fail to clearly set forth a positive structure that would facilitate such operability.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- Claims 11-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over
 Berlowitz, taken in view of with Munters et al or McNab.

Berlowitz (Fig. 1; col. 1, line 47 through col. 3, line 65; col. 4, lines 11-22) substantially disclose applicant's invention as recited by instant claims 11-21, except for wet heat exchanger (2) being provided with multiple air flow streams therethrough, and the first heat exchanger including two cross-current exchangers therein. Applicant should note that it has been established by the Court as an obvious expedient to provide multiples of a known feature in order to facilitate a multiplied effect.

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Munters et al (Figs. 1 and 6; col. 2, lines 36-59) or McNab (Figs. 1 and 2) each alternatively disclose an air modifying device including wet heat exchange stages that facilitate heat transfer between plural air flow streams within a heat exchanger with an incorporated moistening device. It would have been obvious for an artisan at the time of the invention, to substitute the cross-flow multiple air flow, wetted heat exchangers of either Munters et al or McNab, for the wetted heat exchanger of Berlowitz, since such would facilitate the recovery of energy from a secondary air flow stream in a well known manner as taught by either of the alternative secondary references, within the invention of Berlowitz, thereby improving the efficiency thereof.

Conclusion

- The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Bushey whose telephone number is 571 272-
- 1153. The examiner can normally be reached on M-Th 6:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Scott Bushey Primary Examiner Art Unit 1797

/S. B./ 11-24-08

> /Scott Bushey/ Primary Examiner, Art Unit 1797